

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S62	55	((current or electron) near1 (sens\$3 or flow)) with ((free) adj (layer or film or membrane)) with (intermediate or spacer or nonmagnetic or non-magnetic)).clm. and (360/324.11,324.12).ccls.	US-PGPUB; USPAT	OR	ON	2008/06/11 13:52
S61	54	("4103315" "4809109" "4947541" "5153513" "5159513" "5195004" "5206590" "5287238" "5315468" "5373238" "5380548" "5436778" "5500633" "5508867" "5528440" "5549978" "5552949" "5563752" "5574605" "5583725" "5608593" "5648884" "5654854" "5691864" "5708358" "5742458" "5756191" "5768067" "5772794" "5784225" "5843589").PN. OR ("6295186").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/02 12:07
S60	136	S57 and S58 and S59	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/06/02 11:10
S59	294808	(spin adj bulb or spin adj bubble or ((read\$3 or reproduc\$3) near2 (element or device \$1)) or mr or DOMR or mre or magneto adj2 (resistiv\$3 or resistance\$1) or magnetoresist \$5 or amr or magnetic\$4 adj2 (resistiv\$3 or resistance\$1) or SFSV or SVMR or TuMR\$1 or CMP\$1 or GMR\$1 or spin adj2 valve\$1 or svmr\$1 or tjmr\$1 or tmj\$1 or tmr\$1 or mram\$1 or magnetic adj2 memor\$3 or magnetic adj random adj access adj memor\$3 or DSV or TJM or MTJ or macro adj magnetoresist\$5 or macromagnetoresist\$5 or piggyback or ((composite or combination or merged) adj4 head\$1)).ti,ab,clm. or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/06/02 11:07

		"360/113" or 360/313-327.33. ccls. or 365/158.ccls. or 338/32\$2.ccls. or 324/207.21. ccls. or 324/252.ccls. or 365/171.ccls. or 365/173.ccls. or 428/811-811.5.ccls. or 148/108.ccls. or 257/295.ccls. or 257/296.ccls. or 257/414. ccls. or 257/421.ccls. or 428/611.ccls. or 438/3.ccls. or g11b005/39.ipc. or g11b005/33.ipc. or g11b005/127.ipc. or "g11b005/39" or "g11b005/33 " or "g11b005/127" or "g11b05/39" or "g11b05/33 " or "g11b05/127" or "g11b5/39" or "g11b5/33 " or "g11b5/127" or "g11b 5/39" or "g11b 5/33 " or "g11b 5/127"				
S58	544029	((single adj2 pole or perpendicular\$4 or vertical\$4 or monopole or mono adj pole or probe) near2 (recording or writing or write\$1 or writer or transduc\$4 or recorder\$1 or head\$1)) or ((main adj2 (yoke or pole)) or ((return or auxiliary) adj2 (yoke\$1 or pole \$1))) or SPT or single adj pole \$1 adj type\$1 or writ\$3 adj2 shield\$3 or SUL or soft near2 underlayer\$1 or return\$3 near2 flux\$2 or PMR or SUL or (soft near2 (underlayer\$1 or under or back\$3 or lining\$1 or auxiliary)) or SUL\$2 or ((PERPENDICULAR\$4 OR VERTICAL\$4 OR OUT ADJ2 PLANE) NEAR4 (write\$1 or writing or ANISOTROP\$3 OR RECORD\$3 OR DATA OR FIELD\$1 OR COMPONENT\$1 OR FLUX\$3 OR STORAGE OR MEDIA OR MEDIUM OR EASY ADJ AXIS OR MAGNETIZATION \$1 or moment or uniaxial\$4 or monoaxial\$5 or unisotrop\$5 or single adj axis or unidirection\$4)).TI,AB,CLM. or ((main or auxiliary or supplementary or single) near2 pole\$1) or 360/125.02- 125.32.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/06/02 11:06

S57	58485	pair\$1 near2 (pinned or pinning or fixing or fixed or AFM or antiferromagnetic\$5 or anti adj ferromagnet\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/06/02 11:06
S56	5	("3787964" "5271802" "5799388" "6344954" "6469879").PN. OR ("6792670").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/05/30 16:17
S55	183	((current or sens\$3 or electron or flow) with (single or through or only) with (free)) and (sato).in.	US-PGPUB; USPAT	OR	ON	2008/05/30 16:15
S54	1	((current or electron) near1 (sens\$3 or flow)) with (single or through or only) near2 ((free) adj (layer or film or membrane)) and (sato).in.	US-PGPUB; USPAT	OR	ON	2008/05/30 16:14
S53	0	("2001/0028068").URPN.	USPAT	OR	ON	2008/05/30 16:13
S52	67	((current or electron) with (sens\$3 or flow)) with (single or through or only) with ((free) adj (layer or film or membrane)) and S51	US-PGPUB; USPAT	OR	ON	2008/05/30 16:00
S51	247	(free near1 (layer or film)) near3 (top or above or opposite) near2 (abs or surface or face or air adj bearing or bearing adj surface)	US-PGPUB; USPAT	OR	ON	2008/05/30 15:40
S50	11	((current or electron) near1 (sens\$3 or flow)) with (single or through or only) near2 ((free) adj (layer or film or membrane)) and ("257"/\$). ccls.	US-PGPUB; USPAT	OR	ON	2008/05/30 15:31
S49	16	((current or electron) near1 (sens\$3 or flow)) with (single or through or only) near2 ((free) adj (layer or film or membrane)) and ("365"/\$). ccls.	US-PGPUB; USPAT	OR	ON	2008/05/30 15:31
S48	112	((current or electron) near1 (sens\$3 or flow)) with (single or through or only) near2 ((free) adj (layer or film or membrane)) and ("360"/\$). ccls.	US-PGPUB; USPAT	OR	ON	2008/05/30 14:53
S47	12	("5583725" "5920446" "6118624" "6222707" "6295186" "6322640" "6324037" "6473279").PN. OR ("7010848").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/05/30 14:50

S46	1	("5432373").PN.	US-PGPUB; USPAT	OR	OFF	2008/05/30 14:37
S45	169	S44 and @pd<="20030929"	US-PGPUB; USPAT	OR	ON	2008/05/30 14:09
S44	469	S42 and "360"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2008/05/30 14:08
S43	3	((current or electron) near1 (sens\$3 or flow)) with (single or through or only) near2 ((free) adj (layer or film or membrane)) and (257/421,422).ccls.	US-PGPUB; USPAT	OR	ON	2008/05/30 14:08
S42	703	(bias\$4 or magnet\$6 or pin\$4 or hard or AFM or FM or ferromagnet\$3 or coupl\$3) near3 (oppos\$6 or other) near3 (ABS or air adj bearing or bearing adj surface or medium adj fac\$3)	US-PGPUB; USPAT	OR	ON	2008/05/30 13:58
S41	13	((current or electron) near1 (sens\$3 or flow)) with (single or through or only) near2 ((free) adj (layer or film or membrane)) and (365/158,171).ccls.	US-PGPUB; USPAT	OR	ON	2008/05/30 13:49
S40	29	S32 and S39	US-PGPUB; USPAT	OR	ON	2008/05/30 13:16
S39	135	((current or electron) near1 (sens\$3 or flow)) with (single or through or only) near2 ((free) adj (layer or film or membrane))	US-PGPUB; USPAT	OR	ON	2008/05/30 13:14
S38	389	360/319.ccls.	US-PGPUB; USPAT	OR	ON	2008/05/30 12:31
S37	543	360/317.ccls.	US-PGPUB; USPAT	OR	ON	2008/05/30 12:31
S36	394	360/313.ccls.	US-PGPUB; USPAT	OR	ON	2008/05/30 12:24
S35	0	("2005/0264944").URPN.	USPAT	OR	ON	2008/05/30 12:04
S34	1	"20050264944".pn.	US-PGPUB; USPAT	OR	ON	2008/05/30 11:58
S33	258	((current or sens\$3 or electron or flow) with (single or through or only) with (free)) and S32	US-PGPUB; USPAT	OR	ON	2008/05/30 11:40
S32	3607	(bias\$4 or magnet\$6 or pin\$4 or hard or AFM or FM or ferromagnet\$3 or coupl\$3) with (oppos\$6 or other) with (ABS or air adj bearing or bearing adj surface or medium adj fac\$3)	US-PGPUB; USPAT	OR	ON	2008/05/30 11:28

S31	155	(magnet\$3 near1 (sensor or read or element or head or MR)) same ((current or sens\$3 or electron or flow) near2 (single or through or only) near3 (free))	US-PGPUB; USPAT	OR	ON	2008/05/30 11:24
S30	21	(magnet\$3 near1 (sensor or read or element or head or MR)) with ((current or sens\$3 or electron or flow) near2 (single or through or only) near3 (free))	US-PGPUB; USPAT	OR	ON	2008/05/30 11:12
S29	3	((current or sens\$3 or electron or flow) near2 (single or through or only) near3 (free)) and S27	US-PGPUB; USPAT	OR	ON	2008/05/30 11:12
S28	17	("20020034055" "20020097540" "20020131218" "20020181173" "20030035256" "20030156361" "20030179517" "6266218" "6501627" "6538860" "6633466" "6671139").PN. OR ("6778364").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/05/30 11:11
S27	3596	(ihara or kodama or uzumaki). in.	US-PGPUB; USPAT	OR	ON	2008/05/30 10:48
S26	11	("5390061" "5416353" "5422571" "5463516" "5654566" "5691865" "6064552" "6069820" "6104275" "6130814" "6387549").PN. OR ("6700761").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/05/30 10:34
S25	1	"6700761".pn.	US-PGPUB; USPAT	OR	ON	2008/05/30 10:34
S24	5	((("5576915") or ("6104275") or ("20010022373") or ("20010053052") or ("20020075611"))).PN.	US-PGPUB; USPAT	OR	OFF	2008/05/29 18:02
S23	1	10/895844.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/05/29 17:59
S22	2	("2001/0053052").URPN.	USPAT	OR	ON	2008/05/29 17:56
S21	0	("2007/0279973").URPN.	USPAT	OR	ON	2008/05/29 17:56

S20	114	((current or sens\$3 or electron or flow) near2 (single or through or only) near3 (free)) and (S17 or S18)	US-PGPUB; USPAT	OR	ON	2008/05/29 17:54
S19	5	((CIP or current near1 plane) with ((free) adj (layer or film))) and (S17 or S18)	US-PGPUB; USPAT	OR	ON	2008/05/29 17:54
S18	3053	(365/158,171).ccls.	US-PGPUB; USPAT	OR	ON	2008/05/29 17:54
S17	957	(257/421,422).ccls.	US-PGPUB; USPAT	OR	ON	2008/05/29 17:53
S16	1	"20010053052".pn.	US-PGPUB; USPAT	OR	ON	2008/05/29 17:52
S15	20	((CIP or current near1 plane) with ((free) adj (layer or film))) and S14	US-PGPUB; USPAT	OR	ON	2008/05/29 17:29
S14	3960	(gill or pinarbasi or freitag).in.	US-PGPUB; USPAT	OR	ON	2008/05/29 17:23
S13	52	(side near2 (bias\$4 or magnet \$6 or pin\$4 or hard or AFM or FM or ferromagnet\$3 or coupl \$3)) with (CIP or current near2 plane)	US-PGPUB; USPAT	OR	ON	2008/05/29 17:23
S12	368	((current or sens\$3 or electron or flow) near2 (single or through or only) near3 (free)) and (S1 or S2)	US-PGPUB; USPAT	OR	ON	2008/05/29 17:16
S11	84	((CIP or current near1 plane) with ((free) adj (layer or film))) and (S1 or S2)	US-PGPUB; USPAT	OR	ON	2008/05/29 17:16
S10	49	((("4280158") or ("4524401") or ("5825594") or ("5946168") or ("6178073") or ("5668685") or ("5726838") or ("4880694") or ("4904937") or ("4907114") or ("4959136") or ("5251088") or ("5436772") or ("5535077") or ("5657190") or ("5852531") or ("5914839") or ("5948553") or ("5976713") or ("6034847") or ("6074535") or ("6101071") or ("6157523") or ("6183890") or ("6201651") or ("4851096") or ("4861656") or ("4954232") or ("5270893") or ("5361226") or ("5461517") or ("5527479") or ("5587235") or ("5671105") or ("5689225") or ("5694275") or	US-PGPUB; USPAT	OR	OFF	2008/05/29 17:15

		("5726839") or ("5850323") or ("5900323") or ("5978182") or ("6052262") or ("6067200") or ("6111784") or ("6118624") or ("6120920") or ("6146776") or ("6154348") or ("6178112") or ("6219213") or ("6219213") or ("").pn.)).PN.				
S9	160	(free with (layer or film or membrane)) with (gap or narrow or channel or groove or cut or single) and g11b\$. ipc.	FPRS; EPO; JPO; DERWENT	OR	ON	2008/05/29 17:06
S8	0	S4 and g11b\$.ipc.	FPRS; EPO; JPO; DERWENT	OR	ON	2008/05/29 17:06
S7	567	S4 and (S1 or S2)	US-PGPUB; USPAT	OR	ON	2008/05/29 17:06
S6	0	("2004/0061590").URPN.	USPAT	OR	ON	2008/05/29 17:05
S5	151	S4 and S3	US-PGPUB; USPAT	OR	ON	2008/05/29 16:55
S4	2053	(free adj (layer or film or membrane)) with (gap or narrow or channel or groove or cut or single)	US-PGPUB; USPAT	OR	ON	2008/05/29 16:55
S3	34582	("KABUSHIKI KAISHA TOSHI BA").as.	US-PGPUB; USPAT	OR	ON	2008/05/29 16:53
S2	980	360/324.12.ccls.	US-PGPUB; USPAT	OR	ON	2008/05/29 16:41
S1	728	360/324.11.ccls.	US-PGPUB; USPAT	OR	ON	2008/05/29 16:41

6/11/2008 2:08:08 PM

C:\Documents and Settings\cgarcia\My Documents\EAST\Workspaces\10671586.wsp